

# WEST Search History

DATE: Friday, September 12, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>			
L10	L9 SAME INTEGRIN\$	8	L10
L9	ALPHA ADJ 10	774	L9
L8	LUNDGREN-AKERLUND-\$.IN.	1	L8
L7	VDASFRPQGXLAP	0	L7
L6	VDASFRPQGXLAPL5	0	L6
L5	FAMGALPD	0	L5
L4	AAFDGSGQR	0	L4
L3	AAFDGSGQRL2	0	L3
L2	GPGHWDR	0	L2
L1	DNTAQTSAYIQYEPHHSI	0	L1

END OF SEARCH HISTORY

=> D HIS

(FILE 'HOME' ENTERED AT 09:42:28 ON 12 SEP 2003)

FILE 'IMOBILITY, AGRICOLA, AQUASCI, BIOTECHNO, COMPENDEX, COMPUAB, CONF, CONFSCI, ELCOM, HEALSAFE, IMSDRUGCONF, LIFESCI, OCEAN, MEDICONF, PASCAL, PAPERCHEM2, POLLUAB, SOLIDSTATE, CAPLUS, ADISCTI, ADISINSIGHT, ADISNEWS, ANABSTR, BIOBUSINESS, BIOCOMMERCE, ...' ENTERED AT 09:43:39 ON 12 SEP 2003

E LUNDGREN-AKERLUND EVY?/AU

L1	31 S E1 OR E4
L2	1 S L1 AND (ALPHA (A) 10)
	E CAMPER LISBET?/AU
L3	14 S E1 OR E2
L4	6 S L3 AND (ALPHA (A) 10)
L5	24556 S ALPHA (A) 10
L6	261 S L5 (S) INTEGRIN?
L7	74 S L6 (S) COLLAGEN
L8	21 DUP REM L7 (53 DUPLICATES REMOVED)

L4 ANSWER 4 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2002:270929 BIOSIS  
DOCUMENT NUMBER: PREV200200270929  
TITLE: Distribution of the collagen-binding integrin alpha10beta1  
during mouse development.  
AUTHOR(S): **Camper, Lisbet**; Holmvall, Karin; Wangnerud,  
Christel; Aszodi, Attila; Lundgren-Akerlund, Evy (1)  
CORPORATE SOURCE: (1) Biomedical Center, Cartela AB, B12. 221 84, Lund:  
Evy@cartela.se Sweden  
SOURCE: Cell & Tissue Research, (October, 2001) Vol. 306, No. 1,  
pp. 107-116. print.  
ISSN: 0302-766X.  
DOCUMENT TYPE: Article  
LANGUAGE: English

AB We have previously identified and characterised the collagen type  
II-binding integrin subunit alpha10, which is a member of the beta1 family  
and is expressed by chondrocytes. In the present study, we examined the  
expression of the alpha10 integrin in various mouse tissues.  
Immunohistochemical analysis of alpha10 on cryosections from 3-day-old  
mice demonstrated that alpha10beta1 was present in the hyaline cartilage  
of joints, vertebral column, trachea and bronchi. In addition, alpha10 was  
found in the ossification groove of Ranvier, in the aortic and  
atrioventricular valves of the heart and in the fibrous tissue lining  
skeletal muscle and ligaments. Overall, the distribution was distinct from  
that of the collagen-binding integrins alpha1beta1 and alpha2beta1. We  
also found that alpha10beta1 was the dominating collagen-binding integrin  
during cartilage development. Expression of alpha10 appeared at embryonic  
day 11.5 (E11.5) at the same time as chondrogenesis started as judged by  
collagen type II expression. At E13.5, alpha10 was present throughout the  
anlage as well as in the perichondrium and in mesenchyme just outside the  
perichondrium, where it localised with collagen type I. Four weeks after  
birth, alpha10 was prominent both at the articular surface and in the  
growth plate. In conclusion, we found that integrin alpha10beta1 was a  
major collagen-binding integrin during cartilage development and in mature  
hyaline cartilage. In addition, we found that alpha10beta1 was present in  
some fibrous tissues.